

CHAPTER FIFTEEN

Metal Oxide Semiconductor Field Effect Transistors [MOSFET]

Introduction

© Dr. Anas

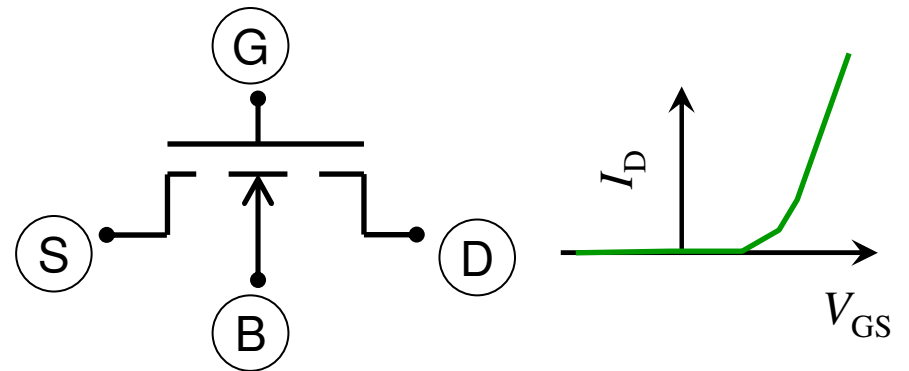
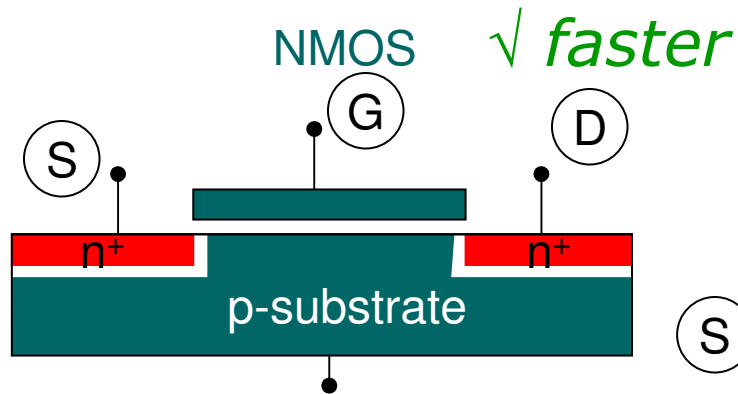
Ch. 15

MOSFET transistors have smaller size than BJT transistors 👍

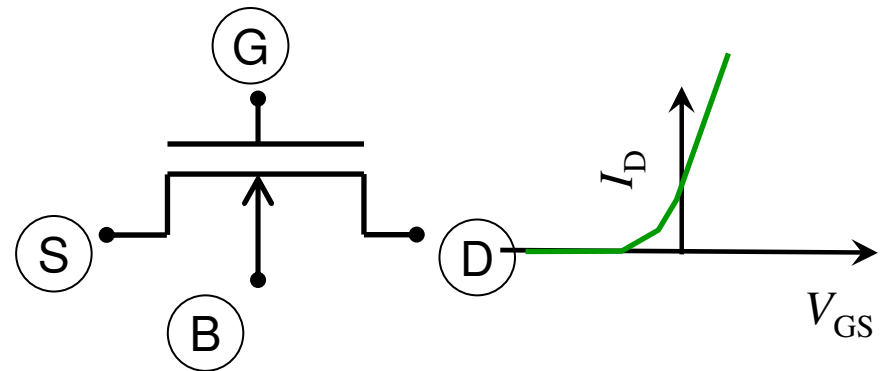
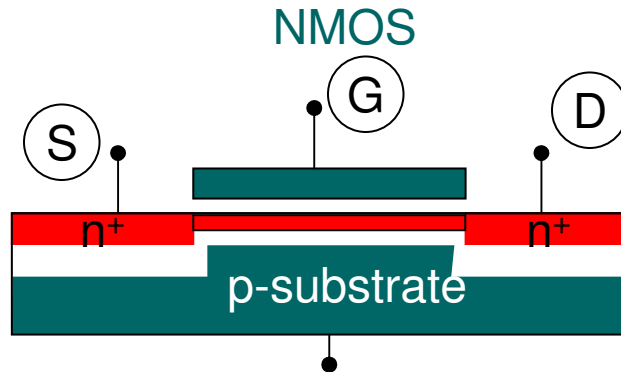
MOSFET transistors have lower power consumption than that of BJT transistors 👍

Types of MOSFETs

Enhancement
(normally OFF)

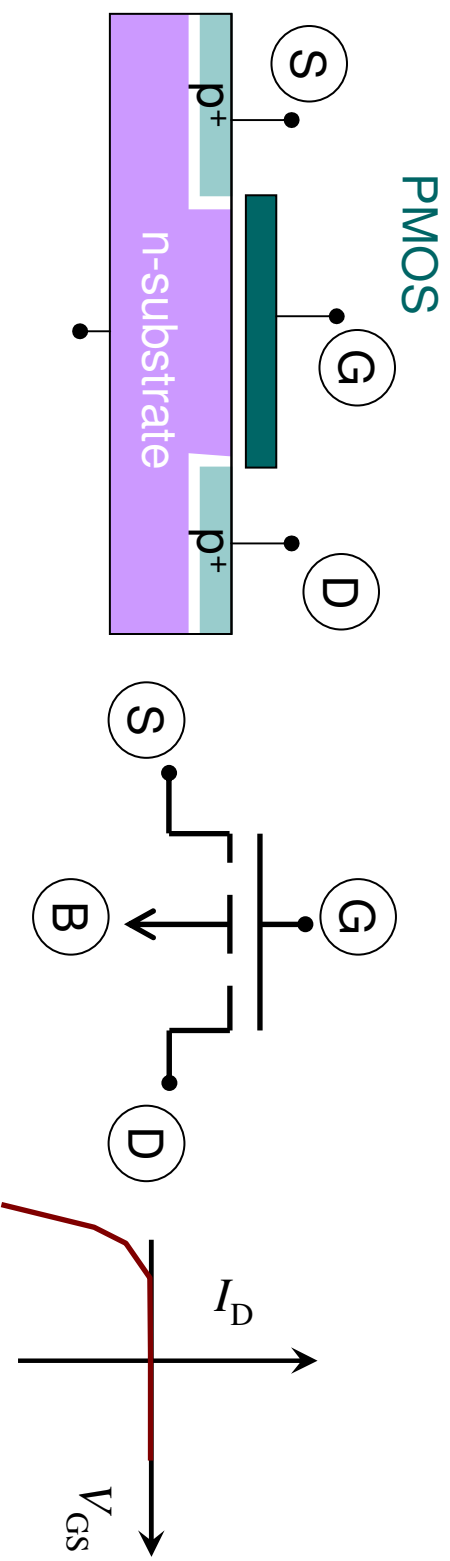


Depletion
(normally ON)

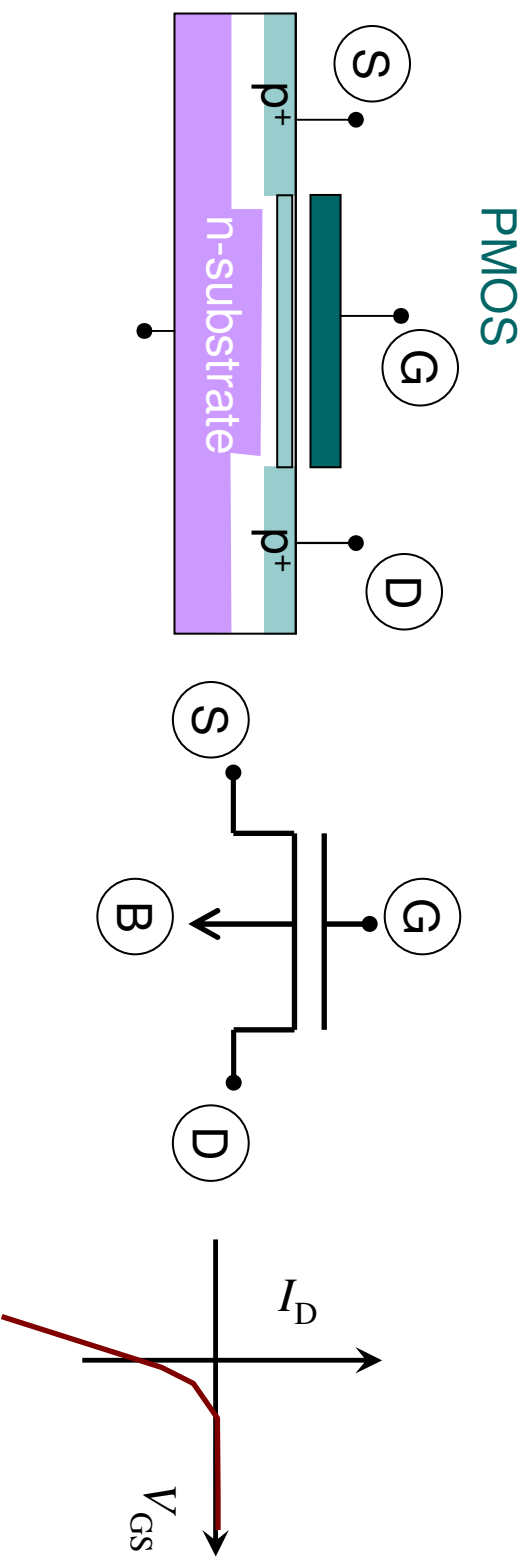


Types of MOSFETs

Enhancement
(normally *OFF*)



Depletion
(normally *ON*)

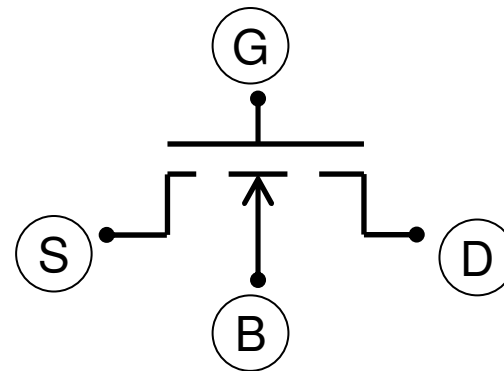
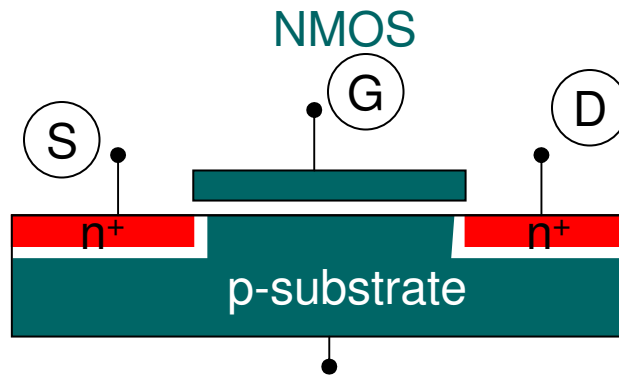


N- MOSFET

© Dr. Anas

Ch. 15

Enhancement
(normally OFF)



The Drain-to-Source current (electrons are emitted from the source to the drain)
 $I_{DS} > 0$

